

Workshop Manual Gol 2009 ➤

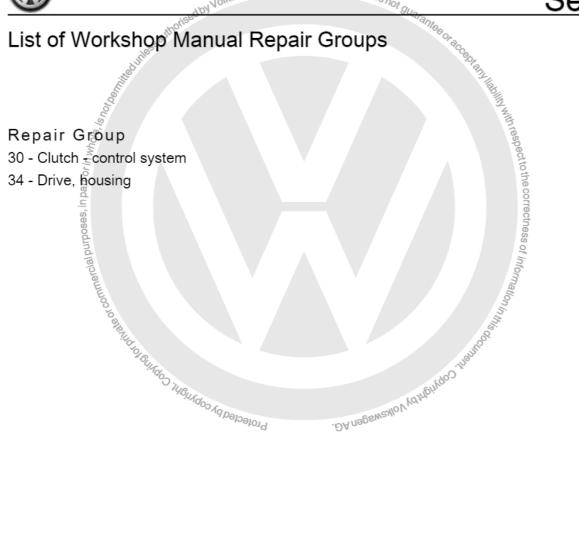
Fox 2004 ➤

Troubleshooting, Mechanical Transmission

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Nolkswagen AG. Volkswagen AG does not

Repair Group

30 - Clutch control system

34 - Drive, housing Protected by copyright, Copyright

Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.

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Contents

30 -	Clutch	n - control system	•
	1	Complaints related to clutch and clutch control	•
	1.1	Complaints related to clutch and clutch control Checking the clutch drive housing related to clutch and clutch control housing related to clutch and clutch control 1	1(
34 -	Drive,	housing is the first the f	2
	1	Complaints related to the selection mechanism	12
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	170t		
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	Who	speci	
	orir	र्व के कि	
	par		
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30 - Clutch - control system

Complaints related to clutch and clutch control



Note

Checking the clutch drive ⇒ page 10.

Before carrying out any repairs on the clutch, it is always necessary to check the customer's complaint and trace the problem cause. When doing this, check whether the complaint is related to the clutch or the selection mechanism adjustment is causing the problem.

Repair action indicated in this troubleshooting programme must be carried out as described in the respective repair manuals.

Complaints	Fault description	Corrective action
The clutch pedal does not return to its initial position.	 Air in the clutch system pipes, low brake fluid reservoir level wswagen AG. Voll 	- Top up the reservoir with brake fluid, and bleed the clutch system of the clutch system o
	◆ The master cylinder or the slave cylinder are getting stuck.	Replace defective parts, bleed clutch system.
	Pipes master cylinder or slave cylinder are leaking	** RCROTANA
	Return spring (if incorrectly fitted).	Reposition the return spring Replace the return spring, if necessary.
I) who	Actuator elements in the clutch case are gripped.	 Clean and lubricate actuators. Replace actuators, if necessary.
in part or	◆ The clutch bearing is askew in the guide tube, causing wear.	 Replace guide tube and clutch bearing.
al purposes,	 The diaphragm spring for the clutch plate pressure plate is broken. 	- Replace the clutch plate.

Complaints	Fault description	Corrective action	
The drive pressure on the clutch pedal is very high	 The clutch pedal is getting stuck. Before checking, separate the master cylinder from the clutch pedal. 	Clean and lubricate the bearings. Replace the bearings, if necessary.	
	◆ The limiting spring's housing is getting stuck; the limiting spring is defective	Clean and lubricate the housing. Replace the housing if necessary. Replace the limiting spring.	
	 Return spring, if incorrectly adjusted (very strong). 	- Reposition return spring.	

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	Trouble

Complaints	Fault description	Corrective action
	◆ The clutch's release press increases due to wear of p ings (linings) of the clutch of	pack- tomer (the release pressure
	◆ The actuator element in th clutch case is getting stuck	
	 The clutch bearing is aske the guide tube, causing we 	
	◆ The contact surface betwee the clutch bearing and the lease lever is worn/marked	re-
	 The plate's pressure plate spring has incorrect specif tion. 	
	The clutch disk gets stuck stuck in the hub groove.	cording to the ⇒ Electronic parts catalogue. / is — Check possible damage in the hub grooves (burrs). Replace the clutch disc, if necessary. — Remove corrosion and lubricant deposits in the hub splines and the input shaft splines, and lubricate with grease -G 000 100 See the ⇒ Chemicals Manual. Displace the clutch disc forwards and backwards, and remove excess grease.
	Comme	ormation in
Complaints Noise when step- ping on the clutch	Clutch pedal gets stuck, points are out of alignment. Limiting spring dry, stuck or misaligned Corrective action Clean and lubricate the bearings. Replace the bearings, if necessary. Clean and lubricate the bearings aligned	-DA negswento Vydingingoo inantoo gira
	◆ The return spring (if incorrectly installed) makes noises.	
	◆ Defect in the clutch release	

		3
Complaints	Fault description	Corrective action
Noise when step- ping on the clutch	 ◆ Clutch pedal gets stuck, points are out of alignment. ◆ Limiting spring dry, stuck or misaligned 	Clean and lubricate the bearings. Replace the bearings, if necessary.
	♦ The return spring (if incorrectly installed) makes noises.	Grease the bearing points.
	◆ Defect in the clutch release bearing; the release bearing's guide tube is not OK; contact surface is worn.	 Always replace noisy release bearings. Replace the guide tubes if damaged.



Complaints	Fault description	Corrective action
	Defect in the contact surface (diaphragm spring ends) of the plate's pressure plate (bent, broken). Clutch bearing decentralised.	Corrective action - Replace the clutch plate. - Check and, if necessary, replace the clutch bearing and the guide turbe. - Check the replace each bear of trailisation pins. - Check the centralisation pins. - Check the centralisation pins. - Check the centralisation pins. - Check the installation position. - Obtain the appropriate clutch disc according to the ⇒ Electronic parts catalogue. Corrective action - Check the system, top upon brake fluid, bleed the system.
	Defect in the crankshaft needle bearing (if fitted). Engine transmission misaligned. Clutch disc in-	- Replace and lubricate with MoS2 grease. - Check the centralisation pins. - Correct the in-
	correctly installed.	stallation position.
	◆ The wrong clutch disc was instal- led.	Dotain the appropriate clutch disc according to the ⇒ Electronic parts catalogue.
Complaints	Fault description	Corrective action
There are noises when a forward or reverse gear is selected; the selection mechanism gets stuck; it is not possible to select a gear; the clutch does not work	◆ The brake fluid level is too low. ◆ There is air in the system, the clutch did not come out completely.	- Check the system, top upon brake fluid, bleed by the system.
	◆ Leak in the mas- ter/slave cylinder and tubes, line is too elastic.	fective part, top
	◆ Clutch pedal has not enough trav- el (carpet or mat under pedal), the clutch is not completely de- pressed.	uation to the customer.

Complaints	Fault description	Corrective action	
	◆ Plate's pressure plate is uneven due to defective installation; clutch disc is bent due to in- correct handling.	 Check parts, re- place as neces- sary, check the position of the centralisation pins. 	
		- If the problem persists, check the clutch disc hub splines in the input shaft for ease of movement; check the crankshaft needle bearing; carry out repairs to the transmission, if necessary.	
46	Clutch plate spring ends broken or bent (defective installation, clutch bearing misaligned).	- Check and, if necessary, replace the clutch bearing and the guide tube.	Oes not guarantee or acceptant libility with respect to the organization of the organi
ishoto		 Check the centralisation pins. 	THE WITH
part or in whole	◆ The clutch disc is very thick.	 Obtain the appropriate clutch disc according to the ⇒ Electronic parts catalogue. 	espections
mmercial purposes, ir	◆ Packing (lining) gripped/locked on the flywheel (parked for a long time, high humidity level).	File lightly the clutch disc's friction surfaces or, if there is a lot of corrosion, replace the part.	os of informati
0000	◆ Packing (lining) gripped/locked on the flywheel (parked for a long time, high humidity level).		The state of the s
	Cled by Copus	.DA neg	NON NOW WASHINGTON



Complaints	Fault description	Corrective action	
	◆ Clutch disc gets stuck in / ad- heres to the groove. Corro- ded hub, dam- aged during in- stallation. Hub	Check possible damage in the hub grooves. Replace the clutch disc, if necessary.	
	profile mis- aligned on one side.	 Remove corrosion and grease deposits from the hub and from the shaft. Lightly lubricate the shaft with graxa - G 000 100 	
		Displace the clutch disc forwards and backwards, and remove excess grease.	
		Check the position of the centralisation pins if the hub profile is misaligned, AG, Vol	kswagen AG does p
	o de la	Check and, if necessary, re- place the clutch bearing, the guide tube, the clutch plate and the needle bear- ing.	kswagen AG does not guarantee or accept any light respect to the corre
	The plate's pressure plate does not lift high enough (incorrect clutch plate).	 Obtain the appropriate clutch plate according to the ⇒ Electronic parts catalogue. 	ith respect to the co
	◆ Defect in the clankshaft needle bearing (if fitted). The input shaft is lifted by the crankshaft whenever the clutch is depressed.	dle bearing and lubricate with MoS₂ grease. Refer to the ⇒ Chemical Man- ual	. DA парыча у учет в проветь в приненененененененененененененененененене
	presseg.	tralisation pins. - Check the input shaft.	Suldo Justinos
		Protected by copyright	. DA nagewaylo V VOTITA.



Complaints	Fault description	Corrective action
	♦ Engine/trans- mission exces- sively misaligned (no centralisa- tion pins), caus- ing the clutch disc support plate to bend. Defect in the crankshaft nee- dle bearing (if fit- ted).	 Insert the centralisation pins before installing the transmission. Check the clutch disc, the plate's pressure plate and the needle bearing for damage, and replace as necessary.
	◆ Packings (linings) displaced due to excessive speed (shifting downwards at very high speed).	Replace the clutch disc. Explain the situation to the customer.
	Packings are displaced because the clutch skids too much as it pulls away. Character Packings Pack	nAG _{doen n}

		TOIKSWage	-Guoes nos	,
	Complaints aisediby	Fault description	Corrective action	
	The load assembly vibrates when the engine speed accelerates or decelerates suddenly	♦ The assembly is fitted very loosely.	- Explain the situation to the customer. Obtain the appropriate assembly according to the ⇒ Electronic parts catalogue, replace if necessary.	2010
0Ses, 11 par 0,		◆ The engine oscillates (does not operate smoothly).	 Check and cor- rect the engine assembly. 	
OJIIWI-	pivale of commercial private of commercial p	◆ The clutch disc is installed with a defective ab- sorber spring (to prevent loose gears from oscil- lating).	Explain the sit- uation to the cus- tomer.	aun.
	BOJEMIMO DO BERNIA DO PARA DE COMMENCA DE COMMENCA DE LA COMPOSITION DE COMPOSITI	◆ Defect in the crankshaft needle bearing (if fitted). Engine/transmission misaligned.	- Replace the needle bearing and lubricate with MoS2 grease. Refer to the ⇒ Chemical Manual - Check the centralisation pins, and replace as necessary.	olini



Complaints	Fault description	Corrective action	
The clutch skids, with no or little propelling	The plungers of the master and slave cylinders do not return to their initial position.	∀olkReplace the master/slave cylinders. Replace the brake fluid, and	Harantee of acce
in duli	lio).	bleed the sys- tem.	SDF BILLIAN
art or in whole, is not be	◆ Incorrect clutch disc, incorrect clutch plate.	 Obtain the appropriate clutch disc and clutch plate according to the ⇒ Electronic parts catalogue. 	blith with respect to the
ses, in pa	◆ Clutch disc worn or burnt; plate's pressure plate	 Replace the clutch disc. 	correctine
oial purpo	overheated, scratched; plate's pressure	 Replace the clutch plate. 	ss of info
or or in whole, is not be milling the service of th	plate bent due to defective instal- lation, insuffi- cient contact pressure on the plate's pressure plate, steering fault, normal	 Explain the sit- uation to the cus- tomer. 	at a state of a contraction to the correctness of information in this contraction to the correctness of information in this contraction to the correctness of information in the
	wear.		(d'Mgindo,2
	◆ Elements of the actuator in the transmission are getting stuck. The pedal mechanism is hard.	Clean and lubricate the bearings. Carry out the necessary repairs.	
	Clutch disc, plate's pressure plate, flywheel	Replace the clutch disc.	
	have oil in ex- cess. The seal- ing of the engine or transmission shaft is defec- tive. There is	Clean the contact surfaces, the plate's pressure plate and the flywheel.	
	grease on the contact surfaces due to excess grease in the hub.	 Replace shaft sealing, remove excess grease from the input shaft. 	
	Clutch disc in- correctly instal- led.	Correct installation, check clutch disc, and replace if necessary.	



Complaints	Fault description	Corrective action	
	◆ The flywheel is very worn or there is too much erosion on the packing's contact surface.	 Obtain the appropriate flywheel according to the ⇒ Electronic parts catalogue. 	
		Check the clutch disc and the clutch plate, and replace as nec- essary.	Follow Volkswagen AG. Volkswagen AG does not guarantee of adapten Halling Militia de la constant
	Slave cylinder, clutch bearing are leaking.	Replace the slave cylinder with the clutch bearing.	ed by Volkswagen AG. Volkswagen AG does not guarantee of ac
Complaints	Fault description	Corrective action	Sp _t
The clutch vibrates, the assembly vibrates	◆ There is air in the system, master/ slave cylinder is defective.	Replace the defective part.	
		Check brake flu- id level, bleed the system, check for leaks.	A Tospec
	◆ The engine does not operate properly	- Check and cor- ect the engine assembly/instal- lation.	
	Drive fault, pull- ing away speed very low.	Explain the sit- uation to the cus- tomer.	Ellino
	The wrong clutch disc was installed.	 Obtain the correct clutch disc according to the ⇒ Electronic parts catalogue. 	tion in this co.
	◆ The assembly is very loosely fit-ted and misaligned.	 Obtain the appropriate assembly according to the ⇒ Electronic parts catalogue. 	Protected by Volkswagen AG.
	◆ Clutch packing (lining), plate's pressure plate contact surface and flywheel have excess oil (oil leaking from the clutch case).	Check the sealing of the transmission input shaft or of the crankshaft, and replace as necessary.	
	tile diater case).	Replace the clutch disc, clean the plate's pressure plate and the flywheel.	



Complaints	Fault description	Corrective action	
	♦ The clutch bearing is askew in the guide tube, gripped (pressure on one side on the clutch plate diaphragm spring).	 Replace the clutch bearing and the guide tube. Check the actuator elements and their bearings. 	
	 ♦ The contact surface for the plate's pressure plate only lifts on one side due to the skewed position of the release bearing. ♦ The housing for the plate's pressure plate got bent during assembly. The contact surface of the plate's pressure plate has only one side lifted up. 	wheel, the plate's pressure plate and the di- aphragm spring:	AG does not guarantee or acc
al purposes, in part or in w.k	The input shaft has excess grease (traces of grease on the clutch disc, plate's pressure plate and flywheel).	- Clean the grease from the plate's pressure plate and from the flywheel, and replace if there are signs of damage (vibration marks, overheating signs, scratches).	AG does not guarantee or acceptant library of information in the spect to the correctness of information in the special state of the sp
Sesodingleion	or common to stem to	 Remove grease traces from the hub and from the shaft; lightly lu- bricate the shaft with grease -G 000 100 Refer to the⇒ Chemi- cal Manual 	octness of Information in this occ
	Fault description	Displace the clutch disc forwards and backwards, and remove excess grease.	Things Copyright by Volkewagen A
Complaints	Fault description	Corrective action	
Thumping noise when the clutch pedal is in rest position.	♦ Idling / primary shaft have sudden vibrations. The cogs rattle. The clutch disc's absorber spring is broken.	Explain the sit- uation to the cus- tomer.	
			í

Complaints	Fault description	Corrective action
Noises when idling	◆ The clutch disc's absorber spring is broken.	Replace the clutch disc.
	◆ The clutch disc was installed without the absorber spring (virbration when idling).	Corrective action Replace the clutch disc. Install the clutch disc with the absorber spring. Replace the clutch plate. Replace the clutch plate. Check engine assembly and correct as necessary. Insert the centralisation pins before installing the transmission. Assemble the intermediate plate on the sealing flange and position it on the localisation tubes. Ve
No.	The plate's pressure plate is bent, broken or out of balance.	Replace the clutch plate.
r in whole, is not,	◆ The engine oscillates (does not operate smoothly).	 Check engine assembly and correct as nec- essary.
se or commercial purposes, in part or in whole, is not been illed in the second of the	 Wide misalign- ment of engine/ transmission (no centralisation pins). 	 Insert the centralisation pins before installing the transmission.
vare or commercial P	◆ The intermediate plate is touching the flywheel.	 Assemble the intermediate plate on the sealing flange and position it on the lo- calisation tubes.
1.1 Check	ing the clutch dri	ive
1. Check the brake fu	uel level in the reservo itch's hydraulic system	oir. While doing that, n has its own chamber
2. Check possible ex	ternal leaks:	lkswagen AG.
Master cylinder		
Slave cylinder		
Tubes/hoses asse		
Supply hose		
	(clip installation and the that cannot be seen.	hreaded connections)
· ·	ms are, for example, f	luid traces in or on the
3. Check the route of	the tubes/hoses asse hoses assembly can	
l. The pedal's return f nats or by mats stuff	function must not be ob ed under it.	bstructed by additiona
oressed and held in f for approximately 20	n pedal. To do this, the five different positions seconds (to test differ c system). Then, a sec	along its entire trave rent application pres-

- 5. Depress the clutch pedal. To do this, the pedal must be depressed and held in five different positions along its entire travel for approximately 20 seconds (to test different application pressures in the hydraulic system). Then, a second person checks whether any fluid is leaking at any of the positions mentioned in item 2. The first holding position also permits to verify whether the clutch pedal falls by itself when pressure is maintained.



- 6. Remove the slave cylinder and check for brake fluid presence in the bellows.
- 7. If all tests appear to be OK or if item 6 tests positive, replace the slave cylinder.



Note

In transmissions in which the slave cylinder and the clutch bearing form one unit, the transmission must be removed.



Drive, housing

Complaints related to the selection mechanism

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34 – Drive, housir	ng	90				
1 Complaints relat mechanism	Complaints related to the selection mechanism					
Before carrying out any repairs on the always necessary to check the custo the problem cause. While doing this plaint's cause can in fact be traced to its adjustment. It may be necessal plaint's cause lies in the clutch and its adjustment.	omer's complaint and trace , sheck whether the com- ofthe selection mechanism or ofto check whether the com-	Corrective action - Checking and correcting.				
Repair actions listed in this troubles carried out as described in the relev						
Complaints	Fault description	Corrective action				
There are noises when a forward or reverse gear is selected; the selection mechanism gets stuck; it is not possible to select a gear; the clutch is not working	ment.	- Checking and correcting.				
	The selection mechanism is not lubricated or is misaligned.	Grease the selection mechanism and replace defective parts.				
	◆ Defect in the crankshaft needle bearing (if fitted). The input shaft is lifted by the crankshaft when- ever the clutch is depressed.					
		Check the centralisation pins, and replace as necessary.				
		Check the input shaft.				
	 Defect in the transmission's syn- chronization and/or selection mechanism. 	Carry out repairs to the transmission.				
	I.					

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Complaints	Fault description	Corrective action	
Thumping noise when the clutch pedal is in rest position.	Idling / primary shaft have sudden vibrations. The cogs rattle. The clutch disc's absorber	 Explain the situation to the customer. 	
	spring is broken.	 Replace the clutch disc. 	

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